



GeneSeek Yak DNA Test

Date of Report: December 10, 2019

Animal Name: HSY Charlie

Animal ID (USYAK Ear Tag#): 09D10

Sample ID: NE01210559

DNA Fingerprint: 16 SNP Identification Code
GCKCWKKAGSYGSYCA

Parentage:

The Sire was not reported in the submission. Dam is not
Reported in the submission

Cattle Introgression

CattleAlleles = 2

CattleFraction = 0.011

Coefficient of Inbreeding

No. Heterozygous SNPs = 30

EstimationOfCOI = 0.1645

Other Features

ATP6 Mitochondrial DNA: G - Cattle

KIT Coat pattern Y - Trim

SAMPLE QUALITY

TotalAssays= 98

TotalCalls= 94

CallRate =0.959

CallRateThreshold =0.95

CallRateStatus=Pass

$COI = 1.0 - \text{heterozygoteTotal} / (\text{Nsites} * \text{ExpectedHets})$
 $\text{ExpectedHets} = 0.3946$
 $COI = 1.0 - 30 / (91 * 0.3946)$
 $COI = 0.1645$

SNP #	Genotype	24	G/G	48	G/G	72	G/G
1	G/G	25	T/T	49	A/A	73	A/A
2	C/C	26	G/T	50	C/C	74	C/C
3	G/T	27	A/A	51	T/T	75	A/G
4	C/C	28	C/C	52	T/T	76	T/T
5	A/T	29	C/C	53	C/C	77	C/T
6	G/T	30	C/C	54	C/C	78	C/C
7	G/T	31	G/G	55	T/T	79	T/T
8	A/A	32	C/C	56	G/G	80	T/T
9	G/G	33	--	57	C/T	81	G/G
10	C/G	34	G/G	58	T/T	82	C/T
11	C/T	35	--	59	T/T	83	T/G
12	G/G	36	C/C	60	C/C	84	C/T
13	C/G	37	G/G	61	A/A	85	G/G
14	C/T	38	A/A	62	C/C	86	C/G
15	C/C	39	A/A	63	A/G	87	G/T
16	A/A	40	A/A	64	T/T	88	C/T
17	C/C	41	A/A	65	C/T	89	C/T
18	G/T	42	--	66	T/T	90	G/G
19	C/C	43	C/C	67	A/T	91	G/T
20	A/A	44	A/T	68	A/C	92	T/T
21	C/T	45	C/G	69	C/G	93	T/T
22	A/A	46	C/C	70	C/C	94	--
23	C/T	47	C/C	71	G/G	95	G/G